

REPORT ON BOILERS.

No. 31717^D

Received at London Office 31 OCT 1949

Date of writing Report 26/9 1949 When handed in at Local Office 1949 Port of Rotterdam

No. in Reg. Book. Survey held at Rotterdam Date, First Survey 15/10 1948 Last Survey 22/9 1949

00032 on the "NELLIE VINKE" (AM 11) (Number of Visits 10) Gross 347.80 Tons Net 30.42

Master Built at Osaka By whom built Osaka Iron Works Ltd Yard No. When built 1937

Engines made at Osaka By whom made Osaka Iron Works Ltd Engine No. When made 1937

Boilers made at Osaka By whom made Osaka Iron Works Ltd Boiler No. When made 1937

Nominal Horse Power 153 Owners Ned. Maatschappij de Walvisvaart Port belonging to Amsterdam

Dimensions in mm

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers 265.17 m² Is forced draught fitted yes Coal or Oil fired oil

No. and Description of Boilers one Scotch boiler 3 furnaces Working Pressure 15.5 kg

Tested by hydraulic pressure to 20 kg Date of test 4/5 49 No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 high lift

Area of each set of valves per boiler per Rule as fitted 12717 mm² pressure to which they are adjusted 15.5 kg Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 2000 mm Is oil fuel carried in the double bottom under boilers no D.B.

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 4600 Length 3722 Shell plates: Material S19 steel Tensile strength 44-51 kg

Thickness 40 Are the shell plates welded or flanged no Description of riveting: circ. seams end double row inter

long. seams double butt strap 3 rows Diameter of rivet holes in circ. seams 41.5 long. seams 41.5 Pitch of rivets 105 134-268

Percentage of strength of circ. end seams plate appr rivets appr Percentage of strength of circ. intermediate seam plate appr rivets appr

Percentage of strength of longitudinal joint plate appr rivets appr combined appr Working pressure of shell by Rules appraised

Thickness of butt straps outer 32 inner 36 No. and Description of Furnaces in each Boiler 3 Morison's

Material S19 steel Tensile strength 41-48 kg Smallest outside diameter 1120

Length of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.e. bottom Working pressure of furnace by Rules appraised

End plates in steam space: Material S19 steel Tensile strength 41-48 kg Thickness 36 Pitch of stays 460 x 505

How are stays secured nuts with washers in and outside Working pressure by Rules appr

Tube plates: Material front S19 steel back S19 steel Tensile strength 41-48 kg Thickness 22

Mean pitch of stay tubes in nests 216 x 210 Pitch across wide water spaces 350 Working pressure front appr back appr

Girders to combustion chamber tops: Material S19 steel Tensile strength 44-51 Depth and thickness of girder

at centre 105-270 Length as per Rule 948 920 Distance apart 220-216 No. and pitch of stays

in each 3 x 215 Working pressure by Rules appr Combustion chamber plates: Material S19 steel

Tensile strength 41-48 kg Thickness: Sides 18 Back 18 Top 18 Bottom 22

Pitch of stays to ditto: Sides 210 x 215 Back 180 x 217 Top 215 x 228 Are stays fitted with nuts or riveted over riveted over

Working pressure by Rules appr Front plate at bottom: Material S19 steel Tensile strength 41-48 kg

Thickness 22 Lower back plate: Material S19 steel Tensile strength 41-48 kg Thickness 22

Pitch of stays at wide water space 386 Are stays fitted with nuts or riveted over fitted with nuts

Working pressure appraised Main stays: Material S19 steel Tensile strength 44-51 kg

Diameter At body of stay or Over threads 9.5 No. of threads per inch 6 Area supported by each stay 460 x 505

Working pressure by Rules appraised Screw stays: Material S19 steel Tensile strength 41-48 kg

Diameter At turned off part or Over threads 42-55-60 No. of threads per inch 9 Area supported by each stay 180 x 215

Working pressure by Rules *upper* Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *✓*
or *60* ✓
Over threads.....
No. of threads per inch *9* ✓ Area supported by each stay *217 x 386* Working pressure by Rules *assessed*
Tubes: Material *SM steel* External diameter { Plain *76* ✓
Stay *76* ✓ Thickness { *4* ✓
9.5 - 8 ✓ No. of threads per inch *9* ✓
Pitch of tubes *105 - 108* Working pressure by Rules *assessed* Manhole compensation: Size of opening in
shell plate *630 x 490* ✓ Section of compensating ring *1070 x 930 x 40* ✓ No. of rivets and diameter of rivet holes *34 - 41.5* ✓
Outer row rivet pitch at ends *260* ✓ Depth of flange if manhole flanged *120* ✓ Steam Dome: Material *✓*
Tensile strength *✓* Thickness of shell *✓* Description of longitudinal joint *✓*
Diameter of rivet holes *✓* Pitch of rivets *✓* Percentage of strength of joint { Plate *✓*
Rivets *✓*
Internal diameter *✓* Working pressure by Rules *✓* Thickness of crown *✓* No. and diameter of
stays *✓* Inner radius of crown *✓* Working pressure by Rules *✓*
How connected to shell *✓* Size of doubling plate under dome *✓* Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell *✓*

Type of Superheater *No superheater* Manufacturers of { Tubes *✓*
Steel forgings *✓*
Steel castings *✓*
Number of elements *✓* Material of tubes *✓* Internal diameter and thickness of tubes *✓*
Material of headers *✓* Tensile strength *✓* Thickness *✓* Can the superheater be shut off and
the boiler be worked separately *✓* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *✓*
Area of each safety valve *✓* Are the safety valves fitted with easing gear *✓* Working pressure as per
Rules *✓* Pressure to which the safety valves are adjusted *✓* Hydraulic test pressure:
tubes *✓* forgings and castings *✓* and after assembly in place *✓* Are drain cocks or
valves fitted to free the superheater from water where necessary *✓*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

✓ Manufacturer

Dates of Survey while building { During progress of work in shops - - *✓*
During erection on board vessel - - - *✓*
Are the approved plans of boiler and superheater forwarded herewith *4-2-49*
(If not state date of approval.)
Total No. of visits *✓*

Is this Boiler a duplicate of a previous case *no* If so, state Vessel's name and Report No. *✓*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *Please see Rpt. N^o 9*

Survey Fee ... £ *—* : } When applied for,19.....
Travelling Expenses (if any) £ *—* : } When received19.....

Asst Surveyor
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 30 DEC 1949*

Assigned *See minute on*
fe rpt



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